Science Test Outline – Grade 8

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Test Date: May 23, 2018 (Wednesday)

A. Sources of Light – Matching Key Word & Definition 6 Pts.

Incandescent

Fluorescent

Phosphorescent

Chemiluniescent

Bioluminescent

Natural

B. Single Point Reflection Drawings – Label; Label & Draw 7 pts & 7 pts

Incident ray

Incident angle

normal

reflection angle

reflection ray

surface

arrows

C. Two- Point Reflection Drawings – Label & Draw 14 pts

Incident ray

Incident angle

normal

reflection angle

reflection ray

surface

arrows

object

image

D. Types of Media – Short Answer 6 pts.

Opaque

Transparent

Translucent

E. Definition – Light 2 pts.

1. Match

|  |  |
| --- | --- |
| A \_\_\_ Opaque | 1. New, more efficient lightbulbs. The contain phosphor and mercury. They are expensive to produce. |
| B \_\_\_ Translucent | 1. A surface that allows light to be transmitted through. |
| C \_\_\_ Transparent | 1. Combining chemicals and other materials to create light. An example is a glow stick. |
| D \_\_\_ Light | 1. Natural light examples include a fire or the Sun. |
| E \_\_\_ Incandescent | 1. A surface that allows some light to pass through; however, it scatters most light. |
| F \_\_\_ Fluorescent | 1. Living things which contain natural chemicals. The produce their own light. |
| G \_\_\_ Chemiluminescent | 1. Light is visible and it is transferred as radiant energy in the form of waves. |
| H \_\_\_ Bioluminescent | 1. A surface that blocks light from passing through |
| I \_\_\_ Natural | 1. Old lightbulbs that create light by heating metal. It is inefficient. It is inexpensive to make. |

1. Draw and label a ray diagram for an opaque, plane surface.

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1. Draw and label a ray diagram for a candle an plane mirror.